

MOHAMMAD ZAKERI

Professor, Department of Fisheries, Faculty of Marine Natural Resources, Khorramshahr University of Marine Science and Technology, Iran.



Email: zakeri@kmsu.ac.ir; Zakeri.mhd@gmail.com

Phone/Fax: +98 9166312609

WOS: <https://www.webofscience.com/wos/author/record/AAK-5805-2020>

ORCID: [0000-0002-8744-8371](https://orcid.org/0000-0002-8744-8371)

Google Scholar: [citations?hl=en&user=5qNMtFMAAAAJ](https://scholar.google.com/citations?hl=en&user=5qNMtFMAAAAJ)

Education

Ph.D.: Marine biology, 2009, Khorramshahr University of Marine Science and Technology, Khorramshahr, Iran.

M.Sc.: Marine biology, 2005, Khorramshahr University of Marine Science and Technology, Khorramshahr, Iran.

B.Sc.: Fisheries, 2002, University of Shahid Chamran, Ahwaz, Iran.

Experience

Feed formulation (Ingredients, Growth promoter, Immune stimulants), Aquaculture feeding management (nutrients requirement, feeding methods and devices, feeding times), Biochemical proximate analysis, Marine broodstock nutrition, Marine larval quality monitoring, Live food culture.

Teaching Interests

Marine fish/Shrimp nutrition, broodstock nutrition, feeding management and ecology.

Academic/Administrative Positions

2009-2015: Assistant Professor, Department of Fisheries, KMSU.

2015 to 2021: Associate Professor, Department of Fisheries, KMSU.

2021 to current: Professor, Department of Fisheries, KMSU.

2009-2012: Director of Industrial relations, KMSU.

2011 to 2019: Director of research and technology, KMSU.

2018 to 2022: Head of the fisheries department.

2022 to current: Vice president for research and technology of KMSU.

Honors and Awards

2015: The province of Khuzestan's top researcher in agriculture and natural resources.

2013: The province of Khuzestan's top researchers in directors of the university research office.

2013: The top teacher of Khorramshahr University of Marine Science and Technology.

Professional affiliations and services

Member, Publication Committee, KMSU

Member, Iranian Society of biology

Member, Editorial Board, Journal of Marine Fishes, Iran

Research Interests

Marine broodstock feeding management, Neurohormonal control of nutrition, feeding biochemical and physiological patterns of aquatic cultured species.

Research Experience

Supervision of over 12 Ph.D. theses.

Supervision of over 48 MSc theses.

Collaboration in over 8 research projects.

Software ability:

Office (Word, Excel, PowerPoint), SPSS, WUFFFDA (Windows user friendly feed formulation data again).

Language skill

Intermediate English.

Publications

- Masoomi, Z., Haghi, M., Zakeri, M., Momeni, M., 2023. Trophic structure using ecological relationships between five dominant commercial fish in Kolahi to Dargahan. *Marine ecology* 44(2): e12743.
- Nahayat, M., Zakeri, M., Salati, A.P., Qasem S.A., 2022. Changes in the Neuropeptide Y mRNA Expression in *Oncorhynchus mykiss* at Different Feeding Frequencies. *Aquaculture Nutrition*: <https://doi.org/10.1155/2022/2080639>.
- Bavi, Z., Zakeri, M., Mousavi, S.M., Yavari, V., 2022. Effects of Dietary Taurine on Growth, Body Composition, Blood Parameters, and Enzyme Activities of Juvenile Sterlet (*Acipenser ruthenus*). *Aquaculture Nutrition*: <https://doi.org/10.1155/2022/1713687>.
- Bavali, S., Haghi, M., Zakeri, M., Kochanian, P., 2022. Feeding and reproduction ecological patterns of *Coptodon zillii* in Shadegan wetland: An aggressive potential species for local aquaculture. *Iranian Journal of Fisheries Sciences* 21(3): 741-757.
- Darabitar, F., Yavari, V., Hedayati, A., Zakeri, M., Yousefi, H., 2022. Nanocrystalline cellulose based on chitosan hydrogel structure as a biological adsorbent for effluent of fish culture farms. *Environmental Science and Pollution Research* 29: 83770–83782.
- Khademzade, O., Kochanian, P., Zakeri, M., Alavi, S.M.H. Torfi Mozanzadeh, M., 2022. Oxidative Stress-Related Semen Quality and Fertility in the Male Arabian Yellowfin Sea Bream (*Acanthopagrus arabicus*) Fed a Selenium Nanoparticle-Supplemented Plant Protein-Rich Diet. *Aquaculture Nutrition*: <https://doi.org/10.1155/2022/3979203>.
- Deilamy Pour, H., Mousavi, S.M., Zakeri, M., Keyvanshokoo, S., Kochanian, P., 2021. Synergistic Effects of Selenium and Magnesium Nanoparticles on Growth, Digestive Enzymes, Some Serum Biochemical Parameters and Immunity of Asian Sea Bass (*Lates calcarifer*). *Biological Trace Element Research* 199: 3102–3111.
- Ebadi, H., Zakeri, M., Mousavi, S.M., Yavari, V., Souri, M., 2021. The interaction effects of dietary lipid, vitamin E and vitamin C on growth performance, feed utilization, muscle proximate composition and antioxidant enzyme activity of white leg shrimp (*Litopenaeus vannamei*). *Aquaculture Research* 52(5): 2048-2060.
- Zadehmohseni, B., Zakeri, M., Yavari, V., Haghi, M., 2020. Effects of different salinities on amino acid profile in *Artemia franciscana*. *Aquaculture Research* 51(8): 3443-3451.
- Khademzade, O., Zakeri, M., Haghi, M., Mousavi, S.M., 2020. The effects of water additive *Bacillus cereus* and *Pediococcus acidilactici* on water quality, growth performances, economic benefits, immunohematology and bacterial flora of whiteleg shrimp (*Penaeus vannamei* Boone, 1931) reared in earthen ponds. *Aquaculture Research* 51(5): 1759-1770.

- Darabitar, F., Yavari, V., Hedayati, A., Zakeri, M., Yousefi, H., 2020. Novel cellulose nanofiber aerogel for aquaculture wastewater treatment. *Environmental Technology & Innovation* 18. <https://doi.org/10.1016/j.eti.2020.100786>.
- Souri, M., Yavari, V., Zakeri, M., Mohammadidoust, M., 2020. Effect of different dietary protein and water salinity on the growth performance, feeding indices and carcass composition of *Litopenaeus vannamei*. *Journal of Fisheries* 73(1): 65-80. doi: 10.22059/jfisheries.2020.299979.1154.
- Soleymani Farsani, A., Haghi, M., Zakeri, M., Shekari, M., 2020. Natural Feeding and Dietary Compositions of Commercial Trawled *Portunus pelagicus* (Linnaeus, 1758) Crabs in Khuzestan Coastal Water; South-West of Iran. *Thalassas: An International Journal of Marine Sciences* 36: 185–191.
- Zakeri, M., Marammazi, G., Kochanian, P., Yavari, V., Savari, A., 2009. Effects of protein and lipid concentrations in broodstock diets on growth, spawning performance and egg quality of yellowfin sea bream (*Acanthopagrus latus*). *Aquaculture*, 295: 99-105.
- Zakeri, M., Kochanian, P., Marammazi, J.G., Yavari, V., Savari, S., Haghi, M., 2011. Effect of dietary n-3 HUFA concentrations on spawning performance and fatty acids composition of broodstock, eggs and larvae in yellowfin sea bream, *Acanthopagrus latus*. *Aquaculture*. 310: 388 -394.
- Saffari, S., Keyvanshokoh, S., Zakeri, M., Johari, S.A., Pasha-Zanoosi, H., Mozanadeh, M.T., 2018. Effects of dietary organic, inorganic, and nanoparticulate selenium sources on growth, hemato-immunological, and serum biochemical parameters of common carp (*Cyprinus carpio*). *Fish physiology and biochemistry*, 44: 1087-1097.
- Hekmatpour, F., Kochanian, P., Marammazi, J.G., Zakeri, M., Mosavi, S.M., 2018. Inclusion of poultry by-product meal in the diet of *Sparidentex hasta*: Effects on production performance, digestibility and nutrient retention. *Animal Feed Science and Technology*. 241: 173-183.
- Saffari, S., Keyvanshokoh, S., Zakeri, M., Johari, S.A., Pasha-Zanoosi, H., 2017. Effects of different dietary selenium sources (sodium selenite, selenomethionine and nanoselenium) on growth performance, muscle composition, blood enzymes and antioxidant status of common carp (*Cyprinus carpio*). *Aquaculture Nutrition*, 23: 611-617.
- Fakher Nasab, E., Yavari, V., Zakeri, M., 2019. The effect of water physicochemical factors of culture ponds on the survival rate of *Litopenaeus vannamei* in shrimp culture farms of Abadan-Choebdeh . *Iranian scientific fisheries journal*, 27(5): 93-102.
- Saremi, N., Mousavi, S.M., Zakeri, M., Zanguee, N., 2019. Effects of ethanolic extract of cumin seeds (*Cuminum cyminum*) on gastric enzymes and some serological parameters of *Cyprinus carpio* fingerlings. *Journal of Aquaculture Development*, 12(4): 51-69.

- Karimi, M., Mousavi, S.M., Zolgharnein, H., Zakeri, M., 2019. Evaluation of effect of adding different levels of montmorillonite on some growth and blood indices of Rainbow trout (*Onchorhynchus mykiss*) fry. Iranian scientific fisheries journal, doi.org/10.22092.
- Bajelan, B.; Zakeri, M.; Mousavi, S.M.; Yavari, V., Rajab zadeh, E., 2018. Combinatory effects of dietary Inulin and Entrococcus faecium in Benni, Mesopotamichthys sharpeyion some hematological parameters, Serum biochemical and resistance to environmental stress. Iranian veterinary journal, 14(2): 28-38.
- Fatahi, S., Zakeri, M., Varshosaz, J., Yavari, V., 2018. Nanoencapsulation of Arginine by chitosan and its effect on amino acid survive in diet and growth Rainbow trout larvae (*Onchorhynchus mykiss*). Journal of aquaculture development, 12(3): 105-117.
- Atefe Soleimani; Mahsa Haghi; Mohammad Zakeri; Majid Shekari, 2018. Feeding strategy analysis of blue swimming crab (*Portunus pelagicus*, Linnaeus, 1758) using Castello's graphical model in Khuzestan coastal water. Journal of marine science and technology, 17(1): 37-46.
- Fatemeh Hekmatpour, Preeti Kochanian, Jasem Ghafle Marammazi, Mohammad Zakeri, Seyed Mohammad Mousavi, 2018. Effects of fish meal replacement with poultry by-product meal on growth performance, hematological indices and serum biochemical parameters in sobaity sea bream (*Sparidentex hasta*, Valenciennes 1830) juveniles. Aquatic physiology and biotechnology, 6(2): 78-112.
- Hekmatpour, F., Kochanian, P., Ghafle Marmmazi, J., Zakeri, M., Mousavi, S.M., 2018. Potential of poultry by-product meal as a main protein source in diets formulated for juvenile sobaity (*Sparidentex hasta*). Iranian Journal of Fisheries Sciences DOI: 10.22092/ijfs.2018.117779.
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- Beirami, N., Zakeri, M., Kochenin, P., Yavari, V., Mohammadi Azarm, H., 2017. Effects of amino acid supplementation of lysine and methionine on body biochemical composition and amino acid profile of Sobaity sea bream (*Sparidentex hasta*) juveniles. Iranian scientific fisheries journal, 25 (5):129-141.
- Sad Asadi Eidivand, Seyed Mohammad Mousavi, Seyed Reza Fatemi Tabatabaei, Mohammad Zakeri, Nasim Zanguee, 2017. Study of some biological parameters of *Tenuulosa ilishaand*

- gonad histological characteristics on spawning and post spawning. Journal of marine science and technology, 16(1): 76-86.
- Masoumi, Z., Zakeri, M., Yavari, V., Mousavi, S.M., 2017. Effect of different dietary protein levels and water salinities on biochemical hemolymph parameters of white leg shrimp (*Litopenaeus vannamei*) juvenile. Iranian scientific fisheries journal, 25 (5): 181-186.
- Bajelan, B.; Zakeri, M.; Mousavi, S.M.; Yavari, V., Rajab zadeh, E., 2017. Effects of dietary supplementation of synbiotic on growth performance, feed utilization and body biochemical composition of Benni, *Mesopotamichthys sharpeyi*. Journal of animal researches (Iranian journal of biology), 30(4): 1-12.
- Mehdi Maramazi, Mohammad Zakeri, Mohammad Taghi Ronagh, Preeta Kochanian, Mahsa Haghi, 2017. Food habits of *Capoeta trutta* Heckel, 1843, in Sezar river from tigris catchment in Lorestan province. Journal of animal researches (Iranian journal of biology), 30(3): 431-441.
- Ghorbani Ranjbari, N., Haghi, M., Zakeri, M., Yavari, V., Shekari, M., 2017. Diets of tigertooth croaker *otolithes ruber* (Bloch & Schneider, 1801) in commercial size in Khuzestan province coasts *O. ruber*, food indices, Khuzestan province coasts. Journal of applied ichthyological research, 5 (2): 31-46.
- Nazanin Ghorbani Ranjbari, Mohammad Zakeri, Mahsa Haghi, Vahid Yavari, Majid Shekari, 2017. Some biological indices of *Otolithes ruber* in Khuzestan coasts. Journal of animal environment, 8(4): 133-140.
- Movahedian, R., Zakeri, M., Kochanian, P., Mousavi, S.M., Taghavi Moghadam, A., 2016. Intestinal digestive enzyme activity under the influence of different dietary supplements methionine and lysine in the diet of *Sparidentex hasta*. Iranian Journal of Fisheries Sciences 25(2):79-93.
- Ghobeishavi Ahmad, Musavi Mohammad, Yavari Vahid, Kochanian Preeta, Zakeri Mohammad. 2016. The innate immunity changes of the female anadromous hilsa shad, *Tenulosa ilisha* , during spawning and post spawning season. Iranian Journal of Fisheries Sciences. 15.
- Kochaki L, Zakeri M, Mousavi S M, Yavari V, Kochanian P. 2016. Effect of feed frequency on growth performances, feed utilization and biochemical composition of sterlet sturgeon, *Acipenser ruthenus*. Journal of Fisheries-Iranian Journal of Natural Resources.68(4): 615-629.
- Ghobeishavi Ahmad; Mousavi Seyed Mohammad; Yavari Vahid, Kochanian Preeta; Zakeri Mohammad, 2016. The innate immunity changes of the female anadromous hilsa shad, *Tenulosa ilisha* during spawning and post spawning season. Iranian Journal of Fisheries Sciences, 15: 1526-1539.
- Zahra Falamarzi, Seyed Mohammad Mousavi, Mohammad Zakeri, Nasim Zanguee, 2016. Effects of Different Levels of Meal and Alcoholic Extract of Alfalfa (*Medicago sativa*) on

Growth Performance, Nutrition, Carcass Biochemical and Some Serum Biochemical Parameters in Common Carp (*Cyprinus carpio*). *Journal Of Fisheries-Iranian Journal of Natural Resources*, 69(2): 235-251.

Negar Beyrami¹⁰, Mohammad Zakeri, Preeta Kochanian, Vahid Yavari, Hamid Mohammadi Azarm, 2016. Effects of supplementation of amino acids, lysine and methionine on growth performance and feed utilization of Sobaity sea bream juveniles, *Sparidentex hasta*. *Journal of marine science and technology*, 15(3): 89-104.

Amin Tabibi, Seyed Mohammad Mousavi, Vahid Yavari, Mohammad Zakeri, Arash Jahedi, Hossein Pasha Zanoosi, 2016. Effects of activating solutions on performance of artificial propagation of *Luciobarbus xanthopterus* and *Ctenopharyngodon idella*. *Quarterly journal of experimental animal biology*, 19:39-50.

Minabi Kh., Zakeri M., Ghafleh Marammazi J., Yavari V., Mousavi S.M., 2016. n-3 to n-6 unsaturated fatty acids ratios: effects on biochemical composition and fatty acid profile of body juvenile common carp, *Cyprinus carpio*. *Journal of animal researches (Iranian journal of biology)*, 29(2): 223-238.

Ali Darvishi; Mohammad Zakeri; Seyed Mehdi Hosseini, 2016. Comparison of fatty acids profiles in the muscles, liver and carcass of wild and cultured Benni, *Mesopotamichthys sharpeyi*. *Journal of animal environment*, 8(3): 103-114.

Mansour Alboghobesh, Hamid Mohammadi, Vahid Yavari, Mohammad Zakeri, 2015. Effect of fish meal replacement by soybean meal and baker's yeast on growth performance and feed utilization of juvenile *Mesopotamichthys sharpeyi*. *Journal of animal researches (Iranian journal of biology)*, 28(2): 136-145.

Rahimi Yadkoori, Nasrin; Zanguee, Nasim Mousavi, Seyed Mohammad ;Zakeri, Mohammad, 2015. Effects of Ginger (*Zingiber officinale*) Extract on Digestive Enzymes and Liver Activity of *Mesopotamichthys sharpeyi* Fingerlings. *Journal of Persian Gulf*, 6(19): 1-10.

Nasrin Rahimi Yadkoori; Nasim Zanguee; Seyed Mohammad Mousavi; Mohammad Zakeri, 2015. Effects of different levels of Ginger extract on growth performance, nutrition and body biochemical composition of *Mesopotamichthys sharpeyi* fingerlings, *journal of fisheries-iranian journal of natural resources*, 68(3): 397-407.

Mohammadi, F., Mousavi, S.M., Ahmadmoradi, E., Zakeri, M., Jahedi, A., 2015. Effect of *Sacchromyces cerevisiae* on survival rate and growth performance of Convict Cichlid (*Amatitlania nigrofasciata*). *Iranian journal of veterinary research*, 16(1): 59-62.

Saligheh Zadeh R, Yavari V, Mousavi S M, Zakeri M., 2015. Effect of dietary supplement of *Spirulina platensis* on immune indices complement and lysozyme of benny fish *Mesopotamichthys sharpeyi* (Günther, 1874). *Journal of aquatic ecology*, 5(1): 50-44.

Rahman Alimi; Ahmad Savari; Abdolali Movahedinia; Mohammad Zakeri; Negin Salamat, 2015. Thyroid hormones changes in reproduction season of brownbanded bamboo shark

- (*Chiloscyllium punctatum*) from the Persian Gulf. *Journal of veterinary research*, 70(2): 189-194.
- Rahman Alimi; Ahmad Savari; Abdolali Movahedinia; Mohammad Zakeri; Negin Salamat, 2015. Changes in electrolytes and urea of blood according to the reproduction season and body size in the Brown banded Bamboo shark (*Chiloscyllium punctatum*) from Persian Gulf. *Journal of marine science and technology*, 14(2): 113-122.
- Rahman Alimi; Ahmad Savari; Abdolali Movahedinia; Mohammad Zakeri; Negin Salamat, 2015. Histology of gill in the Brown banded Bamboo sharks (*Chiloscyllium punctatum*) of Persian Gulf. *Journal of marine science and technology*, 14(1): 1-10.
- Khalil Minabi; Mohammad Zakeri; Jasem Ghafleh Marammazi; Vahid Yavari; Seied Mohammad Mousavi, 2015. Effects of dietary replacement of fish oil with canola oil in the diet of juvenile common carp, *Cyprinus carpio* on growth performance and feeding utilization of body and diet economic index. *Journal of animal researches (Iranian journal of biology)*, 68(1): 157-175.
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- Golestan, G., Salati, A. P., Keyvanshokoh, S., Zakeri, M., Moradian, H. 2015. Effect of dietary aloe vera on growth and lipid peroxidation indices in rainbow trout (*Oncorhynchus mykiss*). *Veterinary Research Forum*. 6, 63-67.
- Marammazi Mehdi, Zakeri Mohammad, Ronagh Mohammad Taghi, Kochanian Preeta, Haghi Mahsa. 2014. Diet and feeding indices of big mouth botak fish (*Cyprinion macrostomum* Heckel, 1843) in the Sezar river (Lorestan Province). *Journal Of Fisheries-Iranian Journal of Natural Resources*. 67(3):413- 424
- Mohammad Zakeri, Jasem Marammazi, Mahsa Haghi, 2014. Dietary Indispensable Amino Acid Concentrations based on Amino Acid Profiles of Broodstock, Eggs and Larvae in Yellow fin Seabream, *Acanthopagrus latus*. *Journal of Persian Gulf*, 5(17): 1-14.
- Reza Saligheh Zadeh; Vahid Yavari; Seyed Mohammad Mousavi; Mohammad Zakeri, 2014. Effect of dietary supplementation *Spirulina platensis* on blood, immunological and serum biochemical parameters of Benny fish *Mesopotamichthys sharpeyi* (Günther, 1874). *Iranian veterinary journal*, 10(2): 40-46.
- Saligheh Zadeh R, Yavari V, Mousavi S M, Zakeri M., 2014. Effect of Different Levels of Dietary Supplementation of *Spirulina platensis* on Some Growth, Feeding Indices and Body Composition of Benny *Mesopotamichthys sharpeyi* (Günther, 1874) Fingerlings. *Journal of oceanography*, 5(18): 21-27.

- Golestan G, Salati A P, Keyvanshokooh S, Zakeri M, Moradian H., 2014. Effects of Dietary Administration of Aloe vera on the Growth and Some Antioxidant Enzymes in Rainbow Trout, *Oncorhynchus mykiss*. Journal of oceanography, 5 (19) :21-26.
- Mehdi Maramazi, Mohammad Zakeri, Mohammad Taghi Ronagh, Preeta Kochanian, Mahsa Haghi, 2014. Fish species composition caught by using nets in Sezar River (Lorestan province). Journal of animal environment, 6(3): 101-111.
- Mahsa Haghi; Ahmad Savari; Preeta Kochanian; Seyed Mohammad Bagher Nabavi; Mohammad Hasan Nami; Mohammad Zakeri; Mohammad Bodaghi, 2014. Macrobenthose assemblage in the shallow- water coast's of the south Qeshm Island, with acoustic remote sensing thchnique. Journal of marine science and technology, 12(2): 3-15.
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- Mohammad Asadi Rad, Mohammad Zakeri, Vahid Yavari, Seyed Mohammad Mousavi, 2012. Effect of different levels of dietary supplementation of *Saccharomyces cerevisiae* on growth performance, feed utilization and body biochemical composition of Tilapia (*Oreochromis niloticus*) fingerlings. *Journal of Persian Gulf*, 3(9): 15-24.
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Peer review

- review activity for Aquaculture nutrition (27).
- review activity for Aquaculture research (7).
- review activity for Iranian journal of fisheries science (1).

review activity for Thalassas (4).

review activity for Frontiers in Marine Science (1).

review activity for Brazilian Journal of Biology (1).